



UNI9194-6US.ST25.txt
SEQUENCE LISTING

<110> ~~St. Jude Children's Research Hospital, Inc.~~ Thomas C.
L1, QM1ng

<120> COMPOSITIONS, METHODS AND ASSAYS RELATED TO SECRETASE CLEAVAGE
SPECIFICITY

<130> UNI9194-006US

<140> 10/721,297
<141> 2003-11-25

<160> 29

<170> PatentIn version 3.3

<210> 1
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<212> PRT
<213> Artificial

<220>
<223> APP B-secretase binding site

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Glu Val Lys Met Asp Ala Glu
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<213> Artificial

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Asp Glu Leu Ala Pro Ala Gly Thr Gly Val Ser Arg Glu
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<212> DNA
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ggccgagaag tgaagatgga tgcagaaagc

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<210> 4
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<212> DNA
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<223> Synthetic oligonucleotides

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ggccgcttgc tgcattcagg ttcacttctc

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<213> Artificial

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<223> Synthetic peptides

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Gly Tyr Glu Asn Pro Thr Tyr Lys Phe Phe Glu Gln Met Gln Asn
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<213> Artificial

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<223> Synthetic peptides

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Tyr Glu Asn Pro Thr Tyr Arg Phe Leu Glu Glu Arg Pro
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<213> Artificial

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<223> Synthetic peptides

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Asn Lys Met Gln Asn His Gly Tyr Glu Asn Pro Thr Tyr Lys Tyr Leu
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Glu Gln Met Gln Ile
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<213> Artificial

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Val Pro Arg Gly Glu Pro Phe His Ser Ser Glu Ile Gln Arg

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Glu Val Asn Leu Asp Ala Glu
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<210> 11
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Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His Thr
1 5 10 15

Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala Ala
20 25 30

Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu Arg
35 40 45

Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala Glu
50 55 60

Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn Tyr
65 70 75 80

Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser Tyr
85 90 95

Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr Val
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100 105 110

Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln Pro
115 120 125

Trp His Ser Phe Gly Ala Asp Ser Val Pro Ala Asn Thr Glu Asn Glu
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Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr Thr
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Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr
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<212> PRT

<213> Homosapiens

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Glu Glu Ile Ser Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser
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Gly Tyr Glu Val His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val
20 25 30

Gly Ser Asn Lys Gly Ala Ile Ile Gly Met Val Gly Gly Val Val Ile
35 40 45

Thr Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln
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<211> 43

<212> PRT

<213> Homosapiens

<400> 13

Tyr Thr Ser Ile His His Gly Val Val Glu Val Asp Ala Ala Val Thr
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Pro Glu Glu Arg His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn
20 25 30

Pro Thr Tyr Lys Phe Phe Glu Gln Met Gln Asn
35 40

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<212> PRT
<213> Homosapiens

<400> 14

Ala Leu Arg Arg Tyr Leu Arg Ala Glu Gln Lys Glu Gln Arg His Thr
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Leu Arg His Tyr Gln His Val Ala Ala Val Asp Pro Glu Lys Ala Gln
20 25 30

Gln Met Arg Phe Gln Val His Thr His Leu Gln Val Ile Glu Glu Arg
35 40 45

Val Asn Gln Ser Leu Gly Leu Leu Asp Gln Asn Pro His Leu Ala Gln
50 55 60

Glu Leu Arg Pro Ile Gln Glu Leu Leu His Ser Glu His Leu Gly
65 70 75

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<212> PRT
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Pro Ser Glu Leu Glu Ala
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Pro Ala Pro Gly Gly Ser Ser Glu Asp Lys Gly Gly Leu Gln Pro Pro
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Asp Ser

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<400> 17

Lys Asp Asp Thr Pro Met
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<210> 18

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<211> 14
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<213> Homosapiens

<400> 18

Thr Gly Pro Lys Gly Ser Gly Ser Thr Glu Gln Asp Ala Ala
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Ser Pro Glu Lys Glu
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<213> Homosapiens

<400> 20

Lys Met Asn Pro Leu Glu Gln Tyr Glu Arg Lys Val Asn Ala Ser Val
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Pro Arg Gly Phe Pro Phe His Ser Ser Glu Ile Gln Arg Asp Glu Leu
20 25 30

Ala Pro Ala Gly Thr Gly Val Ser Arg Glu Ala Val Ser Gly Leu Leu
35 40 45

Ile Met Gly Ala Gly Gly Ser Leu Ile Val Leu Ser Met Leu Leu
50 55 60

Leu Arg Arg Lys Lys Pro Tyr Gly Ala Ile Ser His Gly Val Val Glu
65 70 75 80

Val Asp Pro Met Leu Thr Leu Glu Glu Gln Gln Leu Arg Glu Leu Gln
85 90 95

Arg His Gly Tyr Glu Asn Pro Thr Tyr Arg Phe Leu Glu Glu Arg Pro
100 105 110

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Ala Leu Arg Arg Tyr Val Arg Ala Glu Asn Lys Asp Arg Ile His Thr
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Ile Arg His Tyr Gln His Val Leu Ala Val Asp Pro Glu Lys Ala Ala
20 25 30

Gln Met Lys Ser Gln Val Met Thr His Leu His Val Ile Glu Glu Arg
35 40 45

Arg Asn Gln Ser Leu Ser Leu Leu Tyr Lys Val Pro Tyr Val Ala Gln
50 55 60

Glu Ile Gln Glu Glu Ile Asp Glu Leu Leu Gln
65 70 75

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<213> Homosapiens

<400> 22

Glu Gln Arg Ala Asp Met Asp Gln Phe Thr Ala Ser Ile Ser Glu Thr
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Pro Val

<210> 23
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<400> 23

Asp Val Arg Tyr Ser Ser Glu Glu Ser
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<400> 24

Glu Glu Ile Pro Pro Phe His Pro Phe His Pro Phe
1 5 10

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Pro Ala Leu Pro Glu Asn Glu Asp Thr Gln Pro
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<210> 26

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<212> PRT

<213> Homosapiens

<400> 26

Glu Leu Tyr His Pro Met Lys Lys Gly Ser Gly Val Gly Glu Gln Asp
1 5 10 15

Gly Gly Leu Ile Gly Ala Glu Glu Lys Val Ile Asn Ser Lys Asn Lys
20 25 30

Val Asp Glu Asn Met Val Ile Asp Glu Thr Leu Asp Val Lys Glu Met
35 40 45

Ile Phe Asn Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu Ser
50 55 60

Val Gly Pro Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu Ile
65 70 75 80

Gly Leu Leu Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile Ser
85 90 95

Leu Val Met Leu Arg Lys Arg Gln
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<210> 27

<211> 43

<212> PRT

<213> Homosapiens

<400> 27

Tyr Gly Thr Ile Ser His Gly Ile Val Glu Val Asp Pro Met Leu Thr
1 5 10 15

Pro Glu Glu Arg His Leu Asn Lys Met Gln Asn His Gly Tyr Glu Asn
20 25 30

Pro Thr Tyr Lys Tyr Leu Glu Gln Met Gln Ile
35 40

<210> 28

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<212> PRT

<213> Homosapiens

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<400> 28

Glu Val Lys Met Asp Ala Glu Ser
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<210> 29

<211> 8

<212> PRT

<213> Artificial

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<223> APP B-secretase binding site

<400> 29

Glu Val Lys Met Asp Ala Glu Ser
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